

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/530,539
Source: pc5/10
Date Processed by STIC: 11/21/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> ; EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/530,539

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ **Wrapped Nucleics
Wrapped Aminos** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 ☐ **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 ☐ **Misaligned Amino
Numbering** The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 ☒ **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 ☐ **Variable Length** Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 ☐ **PatentIn 2.0
"bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 ☐ **Skipped Sequences
(OLD RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES." response to include the skipped sequences.

- 8 ☐ **Skipped Sequences
(NEW RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

- 9 ☐ **Use of n's or Xaa's
(NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 ☐ **Invalid <213>
Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

- 11 ☐ **Use of <220>** Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 ☐ **PatentIn 2.0
"bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 ☐ **Misuse of n/Xaa** "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

delete

RAW SEQUENCE LISTING

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:30

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

W--> 1 hvec.ST25

4 <110> APPLICANT: FRANCE HYBRIDES

6 <120> TITLE OF INVENTION: Process for producing a mammal rendered resistant to an infection by an

7 alphaherpesvirus by germinal transgenesis and mammal obtained by the employment
8 of this process.

10 <130> FILE REFERENCE: hvec

C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/530,539

C--> 12 <141> CURRENT FILING DATE: 2005-04-06

12 <150> PRIOR APPLICATION NUMBER: Fr02 12775

13 <151> PRIOR FILING DATE: 2002-10-15

15 <160> NUMBER OF SEQ ID NOS: 4

17 <170> SOFTWARE: PatentIn version 3.1

*see item 4 on
Error Summary Sheet***Does Not Comply
Corrected Diskette Number***ppr 1-13*

ERRORED SEQUENCES

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 440

21 <212> TYPE: PRT

22 <213> ORGANISM: artificial sequence

24 <220> FEATURE:

25 <223> OTHER INFORMATION: Artificial protein fusing the extracellular domain of the protein HveM of

26 the mouse and the crystallisable fragment of the human immunoglobulin G1

W--> 27 <400> SEQUENCE: 1

29 Met Glu Pro Leu Pro Gly Trp Gly Ser Ala Pro Trp Ser

E--> 30 Gln Ala Pro

E--> 31 1 5 10

E--> 32 15

34 Thr Asp Asn Thr Phe Arg Leu Val Pro Cys Val Phe Leu

E--> 35 Leu Asn Leu

E--> 36 20 25 30

39 Leu Gln Arg Ile Ser Ala Gln Pro Ser Cys Arg Gln Glu

E--> 40 Glu Phe Leu

E--> 41 35 40 45

E--> 44 Val Gly Asp Glu Cys Cys Pro Met Cys Asn Pro Gly (Try)

E--> 45 His Val Lys

E--> 46 50 55 60

51 Gln Val Cys Ser Glu His Thr Gly Thr Val Cys Ala Pro

E--> 52 Cys Pro Pro

E--> 53 65 70 75

E--> 54 80

56 Gln Thr Tyr Thr Ala His Ala Asn Gly Leu Ser Lys Cys

*see item 1 on Error
Summary Sheet**also, use one space
between each amino acid
A MAXIMUM of 16
amino acids per line
amino acid designator*

E--> 57 Leu Pro Cys

*same
env*

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Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

```

E--> 58      85      90
E--> 59      95
      61 Gly Val Cys Asp Pro Asp Met Gly Leu Leu Thr Trp Gln
E--> 62  Glu Cys Ser
E--> 63      100      105
E--> 64      110
      66 Ser Trp Lys Asp Thr Val Cys Arg Cys Ile Pro Gly Tyr
E--> 67  Phe Cys Glu
E--> 68      115      120      125
      71 Asn Gln Asp Gly Ser His Cys Ser Thr Cys Leu Gln His
E--> 72  Thr Thr Cys
E--> 73      130      135      140
      76 Pro Pro Gly Gln Arg Val Glu Lys Arg Gly Thr His Asp
E--> 77  Gln Asp Thr
E--> 78      145      150      155
E--> 79      160
      81 Val Cys Ala Asp Cys Leu Thr Gly Thr Phe Ser Leu Gly
E--> 82  Gly Thr Gln
E--> 83      165      170
E--> 84      175
      86 Glu Glu Cys Leu Pro Trp Thr Asn Cys Ser Ala Phe Gln
E--> 87  Gln Glu Val
E--> 88      180      185
E--> 89      190
      91 Arg Arg Gly Thr Asn Ser Thr Asp Thr Thr Cys Ser Ser
E--> 92  Asp Pro Glu
E--> 93      195      200      205
      96 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
E--> 97  Cys Pro Ala
E--> 98      210      215      220
      101 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
E--> 102  Pro Lys Pro
E--> 103      225      230      235
E--> 104      240
      106 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
E--> 107  Cys Val Val
E--> 108      245      250
E--> 109      255
      111 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
E--> 112  Trp Tyr Val
E--> 113      260      265      270
      116 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
E--> 117  Glu Glu Gln
E--> 118      275      280      285
      121 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
E--> 122  Leu His Gln
E--> 123      290      295      300
      126 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
E--> 127  Asn Lys Ala

```

*some
error*

RAW SEQUENCE LISTING

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Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

E--> 128 305 310 315
 E--> 129 320
 131 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 E--> 132 Gly Gln Pro
 E--> 133 325 330
 E--> 134 335
 136 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
 E--> 137 Glu Leu Thr
 E--> 138 340 345
 E--> 139 350
 141 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 E--> 142 Tyr Pro Ser
 E--> 143 355 360 365
 146 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 E--> 147 Asn Asn Tyr
 E--> 148 370 375 380
 151 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 E--> 152 Phe Leu Tyr
 E--> 153 385 390 395
 E--> 154 400
 156 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 E--> 157 Asn Val Phe
 E--> 158 405 410
 E--> 159 415
 161 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 E--> 162 Thr Gln Lys
 E--> 163 420 425
 E--> 164 430
 166 Ser Leu Ser Leu Ser Pro Gly Lys
 E--> 168 435 440
 171 <210> SEQ ID NO: 2
 172 <211> LENGTH: 581
 173 <212> TYPE: PRT
 174 <213> ORGANISM: artificial sequence
 176 <220> FEATURE:
 177 <223> OTHER INFORMATION: Artificial protein fusing the extracellular domain (domains V-C-C) of the
 178 protein HveC of the pig and the crystallisable fragment of the human
 179 immunoglobulin G1
 W--> 180 <400> SEQUENCE: 2
 182 Met Ala Arg Met Gly Leu Ala Gly Ala Ala Gly Arg Trp
 E--> 183 Trp Gly Leu
 E--> 184 1 5 10
 E--> 185 15
 187 Ala Leu Gly Leu Thr Ala Phe Phe Leu Pro Gly Ala His
 E--> 188 Thr Gln Val
 E--> 189 20 25 30
 192 Val Gln Val Asn Asp Ser Met Tyr Gly Phe Ile Gly Thr
 E--> 193 Asp Val Val
 E--> 194 35 40 45

*same**same*

RAW SEQUENCE LISTING

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TIME: 15:48:31

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

197 Leu His Cys Ser Phe Ala Asn Pro Leu Pro Gly Val Lys
E--> 198 Ile Thr Gln
E--> 199 50 55 60
202 Val Thr Trp Gln Lys Ala Thr Asn Gly Ser Lys Gln Asn
E--> 203 Val Ala Ile
E--> 204 65 70 75
E--> 205 80
207 Tyr Asn Pro Ala Met Gly Val Ser Val Leu Ala Pro Tyr
E--> 208 Arg Glu Arg
E--> 209 85 90
E--> 210 95
212 Val Glu Phe Leu Arg Pro Ser Phe Thr Asp Gly Thr Ile
E--> 213 Arg Leu Ser
E--> 214 100 105
E--> 215 110
217 Arg Leu Glu Leu Glu Asp Glu Gly Val Tyr Ile Cys Glu
E--> 218 Phe Ala Thr
E--> 219 115 120 125
223 Phe Pro Ala Gly Asn Arg Glu Ser Gln Leu Asn Leu Thr
E--> 224 Val Met Ala
E--> 225 130 135 140
228 Lys Pro Thr Asn Trp Ile Glu Gly Thr Gln Ala Val Leu
E--> 229 Arg Ala Lys
E--> 230 145 150 155
E--> 231 160
233 Lys Gly Lys Asp Asp Lys Val Leu Val Ala Thr Cys Thr
E--> 234 Ser Ala Asn
E--> 235 165 170
E--> 236 175
238 Gly Lys Pro Pro Ser Val Val Ser Trp Glu Thr His Leu
E--> 239 Lys Gly Glu
E--> 240 180 185
E--> 241 190
243 Ala Glu Tyr Gln Glu Ile Arg Asn Pro Asn Gly Thr Val
E--> 244 Thr Val Ile
E--> 245 195 200 205
248 Ser Arg Tyr Arg Leu Val Pro Ser Arg Glu Asp His Arg
E--> 249 Gln Ser Leu
E--> 250 210 215 220
253 Ala Cys Ile Val Asn Tyr His Met Asp Arg Phe Arg Glu
E--> 254 Ser Leu Thr
E--> 255 225 230 235
E--> 256 240
258 Leu Asn Val Gln Tyr Glu Pro Glu Val Thr Ile Glu Gly
E--> 259 Phe Asp Gly
E--> 260 245 250
E--> 261 255
263 Asn Trp Tyr Leu Gln Arg Met Asp Val Lys Leu Thr Cys
E--> 264 Lys Ala Asp

same

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TIME: 15:48:31

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

E--> 265 260 265
E--> 266 270
 268 Ala Asn Pro Pro Ala Thr Glu Tyr His Trp Thr Thr Leu
E--> 269 Asn Gly Ser
E--> 270 275 280 285
 273 Leu Pro Lys Gly Val Glu Ala Gln Asn Arg Thr Leu Phe
E--> 274 Phe Arg Gly
E--> 275 290 295 300
 278 Pro Ile Asn Tyr Ser Met Ala Gly Thr Tyr Ile Cys Glu
E--> 279 Ala Thr Asn
E--> 280 305 310 315
E--> 281 320
 283 Pro Ile Gly Thr Arg Ser Gly Gln Val Glu Val Asn Ile
E--> 284 Thr Glu Phe
E--> 285 325 330
E--> 286 335
 288 Pro Tyr Thr Pro Ser Pro Pro Glu His Ala Asp Pro Glu
E--> 289 Glu Pro Lys
E--> 290 340 345
E--> 291 350
 293 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
E--> 294 Pro Glu Leu
E--> 295 355 360 365
 298 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
E--> 299 Lys Asp Thr
E--> 300 370 375 380
 303 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
E--> 304 Val Asp Val
E--> 305 385 390 395
E--> 306 400
 308 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
E--> 309 Asp Gly Val
E--> 310 405 410
E--> 311 415
 313 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
E--> 314 Tyr Asn Ser
E--> 315 420 425
E--> 316 430
 318 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
E--> 319 Asp Trp Leu
E--> 320 435 440 445
 323 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
E--> 324 Leu Pro Ala
E--> 325 450 455 460
 328 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
E--> 329 Arg Glu Pro
E--> 330 465 470 475
E--> 331 480
 333 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr

same

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Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

E--> 334 Lys Asn Gln
 E--> 335 485 490
 E--> 336 495
 338 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 E--> 339 Asp Ile Ala
 E--> 340 500 505
 E--> 341 510
 343 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 E--> 344 Lys Thr Thr
 E--> 345 515 520 525
 348 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 E--> 349 Ser Lys Leu
 E--> 350 530 535 540
 353 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 E--> 354 Ser Cys Ser
 E--> 355 545 550 555
 E--> 356 560
 358 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 E--> 359 Ser Leu Ser
 E--> 360 565 570
 E--> 361 575
 363 Leu Ser Pro Gly Lys
 E--> 365 580
 368 <210> SEQ ID NO: 3
 369 <211> LENGTH: 376
 370 <212> TYPE: PRT
 371 <213> ORGANISM: artificial sequence
 373 <220> FEATURE:
 375 <223> OTHER INFORMATION: Artificial protein fusing the V domain of the protein HveC
 of the pig and
 376 the crystallisable fragment of the porcine immunoglobulin G1
 W--> 377 <400> SEQUENCE: 3
 379 Met Ala Arg Met Gly Leu Ala Gly Ala Ala Gly Arg Trp
 E--> 380 Trp Gly Leu
 E--> 381 1 5 10
 E--> 382 15
 384 Ala Leu Gly Leu Thr Ala Phe Phe Leu Pro Gly Ala His
 E--> 385 Thr Gln Val
 E--> 386 20 25 30
 391 Val Gln Val Asn Asp Ser Met Tyr Gly Phe Ile Gly Thr
 E--> 392 Asp Val Val
 E--> 393 35 40 45
 396 Leu His Cys Ser Phe Ala Asn Pro Leu Pro Gly Val Lys
 E--> 397 Ile Thr Gln
 E--> 398 50 55 60
 401 Val Thr Trp Gln Lys Ala Thr Asn Gly Ser Lys Gln Asn
 E--> 402 Val Ala Ile
 E--> 403 65 70 75
 E--> 404 80
 406 Tyr Asn Pro Ala Met Gly Val Ser Val Leu Ala Pro Tyr

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Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

E--> 407 Arg Glu Arg
E--> 408 85 90
E--> 409 95
411 Val Glu Phe Leu Arg Pro Ser Phe Thr Asp Gly Thr Ile
E--> 412 Arg Leu Ser
E--> 413 100 105
E--> 414 110
416 Arg Leu Glu Leu Glu Asp Glu Gly Val Tyr Ile Cys Glu
E--> 417 Phe Ala Thr
E--> 418 115 120 125
421 Phe Pro Ala Gly Asn Arg Glu Ser Gln Leu Asn Leu Thr
E--> 422 Val Met Gly
E--> 423 130 135 140
426 Ser Val Gly Ile His Gln Pro Gln Thr Cys Pro Ile Cys
E--> 427 Pro Gly Cys
E--> 428 145 150 155
E--> 429 160
431 Glu Val Ala Gly Pro Ser Val Phe Ile Phe Pro Pro Lys
E--> 432 Pro Lys Asp
E--> 433 165 170
E--> 434 175
436 Thr Leu Met Ile Ser Gln Thr Pro Glu Val Thr Cys Val
E--> 437 Val Val Asp
E--> 438 180 185
E--> 439 190
441 Val Ser Lys Glu His Ala Glu Val Gln Phe Ser Trp Tyr
E--> 442 Val Asp Gly
E--> 443 195 200 205
446 Val Glu Val His Thr Ala Glu Thr Arg Pro Lys Glu Glu
E--> 447 Gln Phe Asn
E--> 448 210 215 220
451 Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Gln His
E--> 452 Gln Asp Trp
E--> 453 225 230 235
E--> 454 240
456 Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Val
E--> 457 Asp Leu Pro
E--> 458 245 250
E--> 459 255
461 Ala Pro Ile Thr Arg Thr Ile Ser Lys Ala Ile Gly Gln
E--> 462 Ser Arg Glu
E--> 463 260 265
E--> 464 270
466 Pro Gln Val Tyr Thr Leu Pro Pro Pro Ala Glu Glu Leu
E--> 467 Ser Arg Ser
E--> 468 275 280 285
471 Lys Val Thr Leu Thr Cys Leu Val Ile Gly Phe Tyr Pro
E--> 472 Pro Asp Ile
E--> 473 290 295 300

same

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Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

476 His Val Glu Trp Lys Ser Asn Gly Gln Pro Glu Pro Glu
 E--> 477 Asn Thr Tyr
 E--> 478 305 310 315
 E--> 479 320
 483 Arg Thr Thr Pro Pro Gln Gln Asp Val Asp Gly Thr Phe
 E--> 484 Phe Leu Tyr
 E--> 485 325 330
 E--> 486 335
 488 Ser Lys Leu Ala Val Asp Lys Ala Arg Trp Asp His Gly
 E--> 489 Asp Lys Phe
 E--> 490 340 345
 E--> 491 350
 493 Glu Cys Ala Val Met His Glu Ala Leu His Asn His Tyr
 E--> 494 Thr Gln Lys
 E--> 495 355 360 365
 498 Ser Ile Ser Lys Thr Gln Gly Lys
 E--> 500 370 375
 503 <210> SEQ ID NO: 4
 504 <211> LENGTH: 578
 505 <212> TYPE: PRT
 506 <213> ORGANISM: artificial sequence
 508 <220> FEATURE:
 509 <223> OTHER INFORMATION: Artificial protein fusing the extracellular domain (domains
 V-C-C) of the
 510 protein HveC of the pig and the crystallisable fragment of the porcine
 511 immunoglobulin G1
 W--> 512 <400> SEQUENCE: 4
 514 Met Ala Arg Met Gly Leu Ala Gly Ala Ala Gly Arg Trp
 E--> 515 Trp Gly Leu
 E--> 516 1 5 10
 E--> 517 15
 519 Ala Leu Gly Leu Thr Ala Phe Phe Leu Pro Gly Ala His
 E--> 520 Thr Gln Val
 E--> 521 20 25 30
 524 Val Gln Val Asn Asp Ser Met Tyr Gly Phe Ile Gly Thr
 E--> 525 Asp Val Val
 E--> 526 35 40 45
 529 Leu His Cys Ser Phe Ala Asn Pro Leu Pro Gly Val Lys
 E--> 530 Ile Thr Gln
 E--> 531 50 55 60
 534 Val Thr Trp Gln Lys Ala Thr Asn Gly Ser Lys Gln Asn
 E--> 535 Val Ala Ile
 E--> 536 65 70 75
 E--> 537 80
 539 Tyr Asn Pro Ala Met Gly Val Ser Val Leu Ala Pro Tyr
 E--> 540 Arg Glu Arg
 E--> 541 85 90
 E--> 542 95
 544 Val Glu Phe Leu Arg Pro Ser Phe Thr Asp Gly Thr Ile
 E--> 545 Arg Leu Ser

*same**same*

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Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

E--> 546 100 105
E--> 547 110
549 Arg Leu Glu Leu Glu Asp Glu Gly Val Tyr Ile Cys Glu
E--> 550 Phe Ala Thr
E--> 551 115 120 125
554 Phe Pro Ala Gly Asn Arg Glu Ser Gln Leu Asn Leu Thr
E--> 555 Val Met Ala
E--> 556 130 135 140
559 Lys Pro Thr Asn Trp Ile Glu Gly Thr Gln Ala Val Leu
E--> 560 Arg Ala Lys
E--> 561 145 150 155
E--> 562 160
564 Lys Gly Lys Asp Asp Lys Val Leu Val Ala Thr Cys Thr
E--> 565 Ser Ala Asn
E--> 566 165 170
E--> 567 175
569 Gly Lys Pro Pro Ser Val Val Ser Trp Glu Thr His Leu
E--> 570 Lys Gly Glu
E--> 571 180 185
E--> 572 190
574 Ala Glu Tyr Gln Glu Ile Arg Asn Pro Asn Gly Thr Val
E--> 575 Thr Val Ile
E--> 576 195 200 205
579 Ser Arg Tyr Arg Leu Val Pro Ser Arg Glu Asp His Arg
E--> 580 Gln Ser Leu
E--> 581 210 215 220
584 Ala Cys Ile Val Asn Tyr His Met Asp Arg Phe Arg Glu
E--> 585 Ser Leu Thr
E--> 586 225 230 235
E--> 587 240
589 Leu Asn Val Gln Tyr Glu Pro Glu Val Thr Ile Glu Gly
E--> 590 Phe Asp Gly
E--> 591 245 250
E--> 592 255
594 Asn Trp Tyr Leu Gln Arg Met Asp Val Lys Leu Thr Cys
E--> 595 Lys Ala Asp
E--> 596 260 265
E--> 597 270
599 Ala Asn Pro Pro Ala Thr Glu Tyr His Trp Thr Thr Leu
E--> 600 Asn Gly Ser
E--> 601 275 280 285
604 Leu Pro Lys Gly Val Glu Ala Gln Asn Arg Thr Leu Phe
E--> 605 Phe Arg Gly
E--> 606 290 295 300
609 Pro Ile Asn Tyr Ser Met Ala Gly Thr Tyr Ile Cys Glu
E--> 610 Ala Thr Asn
E--> 611 305 310 315
E--> 612 320
614 Pro Ile Gly Thr Arg Ser Gly Gln Val Glu Val Asn Ile

same

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Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

```

E--> 615  Thr Glu Phe
E--> 616      325      330
E--> 617  335
      619 Pro Tyr Thr Pro Ser Pro Pro Glu His Gly Ser Val Gly
E--> 620  Ile His Gln
E--> 621      340      345
E--> 622  350
      624 Pro Gln Thr Cys Pro Ile Cys Pro Gly Cys Glu Val Ala
E--> 625  Gly Pro Ser
E--> 626      355      360      365
      629 Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
E--> 630  Ile Ser Gln
E--> 631      370      375      380
      634 Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Lys
E--> 635  Glu His Ala
E--> 636      385      390      395
E--> 637      400
      639 Glu Val Gln Phe Ser Trp Tyr Val Asp Gly Val Glu Val
E--> 640  His Thr Ala
E--> 641      405      410
E--> 642      415
      644 Glu Thr Arg Pro Lys Glu Glu Gln Phe Asn Ser Thr Tyr
E--> 645  Arg Val Val
E--> 646      420      425
E--> 647      430
      649 Ser Val Leu Pro Ile Gln His Gln Asp Trp Leu Lys Gly
E--> 650  Lys Glu Phe
E--> 651      435      440      445
      654 Lys Cys Lys Val Asn Asn Val Asp Leu Pro Ala Pro Ile
E--> 655  Thr Arg Thr
E--> 656      450      455      460
      659 Ile Ser Lys Ala Ile Gly Gln Ser Arg Glu Pro Gln Val
E--> 660  Tyr Thr Leu
E--> 661      465      470      475
E--> 662      480
      664 Pro Pro Pro Ala Glu Glu Leu Ser Arg Ser Lys Val Thr
E--> 665  Leu Thr Cys
E--> 666      485      490
E--> 667      495
      669 Leu Val Ile Gly Phe Tyr Pro Pro Asp Ile His Val Glu
E--> 670  Trp Lys Ser
E--> 671      500      505
E--> 672      510
      674 Asn Gly Gln Pro Glu Pro Glu Asn Thr Tyr Arg Thr Thr
E--> 675  Pro Pro Gln
E--> 676      515      520      525
      679 Gln Asp Val Asp Gly Thr Phe Phe Leu Tyr Ser Lys Leu
E--> 680  Ala Val Asp
E--> 681      530      535      540

```

same

RAW SEQUENCE LISTING

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:31

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

684 Lys Ala Arg Trp Asp His Gly Asp Lys Phe Glu Cys Ala
E--> 685 Val Met His
E--> 686 545 550 555
E--> 687 560
689 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Ile Ser
E--> 690 Lys Thr Gln
E--> 691 565 570
E--> 692 575
694 Gly Lys

same

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/21/2005
PATENT APPLICATION: US/10/530,539 TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt
Output Set: N:\CRF4\11212005\J530539.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7,25
Seq#:2; Line(s) 177
Seq#:3; Line(s) 375
Seq#:4; Line(s) 509

VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:27 M:283 W: Missing Blank Line separator, <400> field identifier
L:30 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:31 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:32 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:35 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:36 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:40 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:41 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:44 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:45 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:46 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:52 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:53 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:54 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:57 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:58 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:59 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:62 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:63 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:64 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:67 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:68 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:72 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:73 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:77 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:78 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:79 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:82 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:83 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:84 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:87 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:88 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:89 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:92 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:93 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:97 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:98 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:102 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:103 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:104 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:107 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:108 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:109 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:112 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:113 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1

VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

L:117 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:118 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:122 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:123 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:127 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:128 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:129 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:132 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:133 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:134 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:137 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:138 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:139 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:142 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:143 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:147 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:148 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:152 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:154 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:157 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:158 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:159 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:162 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:163 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:164 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:168 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:180 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:184 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:185 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:188 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:189 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:193 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:194 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:198 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:199 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:203 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:204 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:205 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:208 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:209 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:210 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:213 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:214 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:215 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:218 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:219 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:224 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2

VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

L:225 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:229 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:230 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:231 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:234 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:235 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:236 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:239 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:240 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:241 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:244 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:245 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:249 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:250 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:254 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:255 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:256 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:259 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:260 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:261 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:264 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:265 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:266 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:269 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:270 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:274 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:275 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:279 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:280 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:281 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:284 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:285 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:286 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:289 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:290 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:291 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:294 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:295 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:299 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:300 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:304 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:305 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:306 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:309 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:310 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:311 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:314 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:315 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:316 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2

VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

L:319 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:320 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:324 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:325 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:329 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:330 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:331 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:334 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:335 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:336 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:339 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:340 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:341 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:344 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:345 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:349 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:350 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:354 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:355 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:356 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:359 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:360 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:361 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:365 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:377 M:283 W: Missing Blank Line separator, <400> field identifier
L:380 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:381 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:382 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:385 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:386 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:392 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:393 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:397 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:398 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:402 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:403 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:404 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:407 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:408 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:409 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:412 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:413 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:414 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:417 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:418 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:422 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:423 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:427 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:428 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3

VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

L:429 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:432 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:433 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:434 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:437 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:438 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:439 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:442 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:443 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:447 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:448 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:452 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:453 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:454 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:457 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:458 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:459 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:462 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:463 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:464 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:467 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:468 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:472 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:473 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:477 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:478 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:479 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:484 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:485 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:486 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:489 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:490 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:491 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:494 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:495 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:500 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:512 M:283 W: Missing Blank Line separator, <400> field identifier
L:515 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:516 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:517 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:520 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:521 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:525 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:526 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:530 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:531 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:535 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:536 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:537 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4

VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

L:540 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:541 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:542 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:545 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:546 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:547 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:550 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:551 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:555 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:556 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:560 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:561 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:562 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:565 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:566 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:567 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:570 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:571 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:572 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:575 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:576 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:580 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:581 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:585 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:586 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:587 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:590 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:591 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:592 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:595 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:596 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:597 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:600 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:601 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:605 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:606 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:610 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:611 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:612 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:615 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:616 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:617 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:620 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:621 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:622 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:625 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:626 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:630 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:631 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4

VERIFICATION SUMMARY

DATE: 11/21/2005

PATENT APPLICATION: US/10/530,539

TIME: 15:48:32

Input Set : N:\Rasheed\6648-WO sequence listing.txt

Output Set: N:\CRF4\11212005\J530539.raw

L:635 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:636 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:637 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:640 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:641 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:642 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:645 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:646 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:647 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:650 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:651 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:655 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:656 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:660 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:661 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:662 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:665 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:666 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:667 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:670 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:671 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:672 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:675 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:676 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:680 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:681 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:685 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:686 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:687 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:690 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:691 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:692 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4